

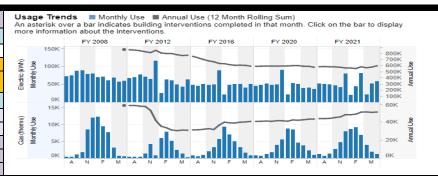
## **Building Dashboard**

Middle School			195 Federal Street				
Building Data							
	Structural Details		HVAC	Condition	Condition Appliances/equipme		
Year Built	1924 Main building/auditorium with additions	Heating System	Two Gas-Fired Condensing Boilers, Mini-splits in offices	EXCELLENT	Interior Lighting	all upgraded to LEDs 2018	
			Several Air Handlers Four Heat Recovery Units  3 Rooftop Units	GOOD EXCELLENT (Replaced 2019)			
Square footage	120,692	Air Conditioning	Economisers in ERUs, Mini-Splits in Admin Offices, Air Conditioner in Server Room	GOOD or EXCELLENT	Exterior Lighting	Needs Data	
Envelope	3- Story Brick	Hot Water Heater	2 NG Water Heaters Supplying a 963 Gallon Tank	EXCELLENT	Vending Machines	Needs Data	
Roof	Flat roof with rubber membrane over steel deck and bar joists. Auditorium (original building) has pitched roof with asphalt shingles on wood sheathing and wood framing.	Ventilation	Four Energy Recovery Units on Roof Several Ventilators and Exhaust Fans	GOOD/EXCELLENT			
Windows	Double Glazed	Heat Distribution	Baseboard Radiation Using 2 Circulation Pumps	POOR			
Insulation	3" of foam insulation in roof	EMS	SNE/Siemens systems - Control: Setbacks. Upgrades in Schedul Ventilation in 2015				

**Building Summary** 

Major Renovation in 1998 general construction, mechanical and electrical. Converted from oil to natural gas in 2011. Upgraded fixtures, lamps, and ballasts and installed occupancy sensors in 2015. In 2016, School Admin moved in requiring an HVAC upgrade (heat pumps). Three rooftop units replaced in January 2019

Energy Profile - FY2021					
Energy Usage					
Electric (kWh)	Heat (therms)	EUI (kBTU/sqft)			
595,200	50,511	59			
EUI <u>&lt;</u> 35	EUI = 35-50	EUI >50			
Meets Zero Energy Goal Efficient		Priority to Improve			
Annual Energy Cost					
Electric	Heat	Total			
\$108,836	\$40,702	\$149,538			
Berkshire Gas Rate Clas	G41 and G42				
Electric Service Rate Cla	<u>G2</u>				
Average Monthly Demo	185.7				



Completed Work					
Fiscal Year	Fiscal Year Project		Grants/Rebates	Life Expectancy	Warranty
2011	Oil to natural gas conversion	N/A	N/A	N/A	N/A
2013	Boiler Upgrade	N/A	N/A	N/A	N/A
2017	School Admin moved to Middle School; Heat pumps added to office space	N/A	N/A	N/A	N/A
2019	LED lighting upgrade- on bill financed	\$73,226	\$31,385	20+ years	5 years
2019	2019 3 new Rooftop Units (Green Communities Grant)		\$108,870	20+ years	5 years
2019	2019 Auditorium Lighting Upgrade		N/A	N/A	N/A

Capital Improvement Plan Projects					
Fiscal Year	Project	Project Cost	Grants/Rebates	Life Expectancy	Warranty
2020-22	Food Service Appliance Replacement (with High School)	\$152,500	N/A	N/A	N/A

Audits/Assessments			
Fiscal Year	Туре	Findings	
2009	Siemens Whole building assessment	Report available upon request	
2019	Solect Solar Assessment	Roof cannot support solar	